

## Zaire ebolavirus (strain Kikwit-95) VP40 Protein (His)

## General Information

Synonyms:	Membrane-associated protein VP40;Ebola VP40 (eVP40);VP40;Matrix protein VP40
Protein Construction:	1-326 aa
Species:	ZEBOV
Expression Host:	E. coli
Accession:	Q77DJ6
Molecular Weight:	39.3 kDa (predicted)
AA Sequence:	MRRVILPTAPPEYMEAIYPVRSNSTIARGGNSNTGFLTPEVNGDTPSNPLRPIADDTIDHASHTPGSVSSAFIL EAMVNVISGPKVLMKQIPIWLPLGVADQKTYSFDDSTAAIMLASYTITHFGKATNPLVRVNRLLGPGIPDHPLRL LRIGNQAFLQEFVLPVLPVLPQYFTFDLTALKLITQPLPAATWTDDTPTGSNGALRPGISFHPKLRPILLPNKSGK KGNADLTSPEKIQAIMTSLQDFKIVPIDPTKNIMGIEVPETLVHKLTGKKVTSKNGQPIIPVLLPKYIGLDPVAP GDLTMVITQDCDCHSPASLPAVIEK

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

## Preparation and Storage

Reconstitution:  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein Background

Plays an essential role virus particle assembly and budding. Acts by interacting with viral ribonucleocapsid and host members of the ESCRT (endosomal sorting complex required for transport) system such as host VPS4, PDCD6IP/ALIX, NEDD4 or TGS101. The interaction with host E3 ubiquitin ligase SMURF2 also facilitates virus

budding. May play a role in immune cell dysfunction by being packaged into exosomes that can decrease the viability of recipient cells (via RNAi suppression and exosome-bystander apoptosis).

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